



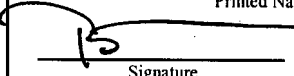
ITW

**PATENT**  
**6057-54800**

First Named Inventor: Bhupal Dharia  
Application Number: 09/750,592  
Filing Date: 12-28-2000

Title of Invention: System for fast  
macrodiversity switching in mobile  
wireless networks

Att'y. Dkt. No: 6057-54800

****CERTIFICATE OF MAILING****	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.	
B. Noël Kivlin	
Printed Name	
	10-23-07
Signature	Date

**TRANSMITTAL OF POWER OF ATTORNEY AND  
NOTICE OF CHANGE OF ADDRESS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find attached a Power of Attorney with regard to the above-identified patent application. Applicant respectfully requests the Commissioner to change the correspondence address for the above identified patent application. The old correspondence address was:

**BERKELEY LAW & TECHNOLOGY GROUP, LLP**  
17933 NW Evergreen Parkway, Suite 250  
BEAVERTON OR 97006

The new correspondence address is:

B. Noël Kivlin  
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, Texas 78767-0398  
(512) 853-8840  
**Customer ID #35690**

If there are any questions regarding this matter, please contact me at the telephone number provided below.

Respectfully submitted,



B. Noël Kivlin  
Reg. No. 33,929  
ATTORNEY FOR APPLICANTS

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, TX 78767-0398  
(512) 853-8800  
Date: 10-23-07



## United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

## Assignments on the Web &gt; Patent Query

## Patent Assignment Abstract of Title

***NOTE: Results display only for issued patents and published applications.  
For pending or abandoned applications please consult USPTO staff.***

## Total Assignments: 5

Patent #: NONE

Issue Dt:

Application #: 09750592

Filing Dt: 12/28/2000

Publication #: 20020123337

Pub Dt: 09/05/2002

Inventors: Bhupal Kanalyalal Dharia, Gopal Chillariga, Ujjal Kumar Ghoshtagore, Rohit Kaushal et al

Title: System for fast macrodiversity switching in mobile wireless networks

## Assignment: 1

Reel/Frame: 011703/0273

Recorded: 04/16/2001

Pages: 7

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: DHARIA, BHUPAL KANATYALAL

Exec Dt: 02/26/2001

CHILLARIGA, GOPAL

Exec Dt: 02/26/2001

GHOSHTAGORE, UJJAL KUMAR

Exec Dt: 02/26/2001

KAUSHAL, ROHIT

Exec Dt: 02/26/2001

KOEPE, ALBERT GERHARD

Exec Dt: 02/26/2001

UYEHARA, LANCE KAZUMI

Exec Dt: 03/16/2001

Assignee: M DIVERSITY INC.

150 CHARCOT AVENUE

SAN JOSE, CALIFORNIA 95131

Correspondent: DAVID E. LOVEJOY CUSTOMER NO. 21603

4 EMBARCADERO CTR., SUITE 400

SAN FRANCISCO, CA 94111-4156

## Assignment: 2

Reel/Frame: 012598/0079

Recorded: 02/11/2002

Pages: 7

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignor: N DIVERSITY, INC.

Exec Dt: 09/17/2001

Assignee: MOBILITY NETWORK SYSTEMS, INC.

150 CHARCOT AVE.

SAN JOSE, CALIFORNIA 95131

Correspondent: MOBILITY NETWORK SYSTEMS INC.

JUDY LINDO

150 CHARCOT AVE.

SAN JOSE, CA 95131

## Assignment: 3

Reel/Frame: 013852/0011

Recorded: 03/17/2003

Pages: 8

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: MOBILITY NETWORK SYSTEMS, INC.

Exec Dt: 01/31/2003

Assignee: PENTECH FINANCIAL SERVICES, INC.

310 W. HAMILTON AVE., #202

ATTN: DAPHNE WELLS

CAMPBELL, CALIFORNIA 95008

Correspondent: GENERAL COUNSEL

DAPHNE WELLS

310 W. HAMILTON AVE. #202  
CAMPBELL, CA 95006

**Assignment: 4****Reel/Frame:** 014462/0589**Recorded:** 09/08/2003**Pages:** 3**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** MOBILITY NETWORK SYSTEMS INC.**Exec Dt:** 06/24/2003**Assignee:** PENTECH FINANCIAL SERVICES, INC.

310 W. HAMILTON AVE,  
SUITE 202  
CAMPBELL, CALIFORNIA 95008

**Correspondent:** RYDER IP LAW, PC  
DOUGLAS J. RYDER  
3669 CONCORD ROAD  
DOYLESTOWN, PA 18901

**Assignment: 5****Reel/Frame:** 014484/0037**Recorded:** 09/12/2003**Pages:** 4**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** PENTECH FINANCIAL SERVICES, INC.**Exec Dt:** 07/22/2003**Assignee:** NORTHSTAR ACQUISITIONS, LLC

280 VALLEY STREET  
LOS ALTOS, CALIFORNIA 94022

**Correspondent:** RYDER IP LAW, PC  
DOUGLAS J. RYDER  
3669 CONCORD ROAD  
DOYLESTOWN, PA 18901

Search Results as of: 10/15/2007 12:18 PM  
If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350. v.2.0.1  
Web interface last modified: April 20, 2007 v.2.0.1

| [.HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)



POWER OF ATTORNEY; STATEMENT UNDER 37 C.F.R. § 3.73

Northstar Acquisitions LLC ("Assignee"), a Delaware limited liability company having a place of business at 2215-B Renaissance Drive, Suite 5, Las Vegas, NV 89119, states that it is the assignee of the entire right, title, and interest in and to the patent applications and/or patents identified in the Appendix ("the Patent Properties"). Assignee has attached, for the Patent Properties, the following documentary evidence of the chain of title and/or information specifying where documentary evidence of a chain of title from the original owner to the Assignee is recorded in the assignment records of the USPTO. *See Appendix.*

With respect to the Patent Properties and all provisionals, reissues, reexaminations, divisionals, continuations, continuations-in-part thereof (whether currently filed or not), the Assignee, pursuant to 37 C.F.R. §§ 1.36 and 3.71, hereby revokes all powers of attorney previously given and appoints

the practitioners associated with the **Customer Number 35690**

to act on Assignee's behalf before the United States Patent and Trademark Office. This appointment is effective only so long as these practitioners remain with the firm associated with the Customer Number listed above.

Pursuant to 37 C.F.R. § 3.71, the assignee hereby states that prosecution of the Patent Properties is to be conducted to the exclusion of the inventor(s).

The undersigned is a representative authorized to act on behalf of the assignee.

Assignee

Northstar Acquisitions LLC  
2215-B Renaissance Drive, Suite 5  
Las Vegas, NV 89119

Dated: 19 OCT 2007

By: 

Name: Julia Ceffalo

Title: Authorized Person

## APPENDIX

### Issued Patents

Patent Number	Title	Issue Date	Recordation Information
6987793	PREDICTIVE COLLISION AVOIDANCE IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING USING SWITCHING	01/17/2006	<p>Reel/Frame: 011971/0165  Assignors: DHAR, NAVEEN; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR; KOEPF, GERHARD ALBERT; ZIAO, JINGQING  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6987793	PREDICTIVE COLLISION AVOIDANCE IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING USING SWITCHING	01/17/2006	<p>Reel/Frame: 011971/0165  Assignors: DHAR, NAVEEN; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR; KOEPF, GERHARD ALBERT; ZIAO, JINGQING  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			<p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7010015	VIRTUAL CELL MAPPING IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING	03/07/2006	<p>Reel/Frame: 014455/0191  Assignor: MDIVERSITY INC.  Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 012206/0380  Assignors: HERVEY, MORRIS MARVIN; GHOSHGATORE, UJJAL KUMAR; SOMESEKHARA, ARCHANA  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7020115	FAST MACRODIVERSITY SWITCHING WITH TIME MANAGEMENT IN WIRELESS NETWORKS	03/28/2006	<p>Reel/Frame: 011900/0351  Assignors: CHILLARIGA, GOPAL; DHARIA, BHUPAL KANAIYALAL; KOEPF, GERHARD ALBERT; UYEHARA, LANCE KAZUMI  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL</p>

			<p>SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7194017	VIRTUAL CELL MAPPING IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING	03/20/2007	<p>Reel/Frame: 018863/0488 Assignors: HERVEY, JR., MORRIS MARVIN; GHOSHTAGORE, UJAL KUMAR; SOMASEKHARA, ARCHANA Assignee: MDIVERSITY, INC.</p> <p>Reel/Frame: 018833/0093 Assignor: MDIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 018832/0560 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 018832/0569 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7212515	FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS	05/01/2007	<p>Reel/Frame: 011701/0944 Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; UYEHARA, LANCE KAZUMI Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 011976/0136 Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPA; UYEHARA, LANCE KAZUMI Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 014462/0589 Recorded: Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>



7177298	DYNAMIC CHANNEL ALLOCATION IN MULTIPLE-ACCESS COMMUNICATION SYSTEMS	02/13/2007	<p>Reel/Frame: 011714/0192  Assignors: CHILLARIGA, GOPAL; KAUSHAL, ROHIT; DHARIA, BHUPAL KANAIYALAL; UYEHARA, LANCE KAZUMI; KOEPF, ALBERT GERHARD; RAACK, KEVIN DEAN; GHOSHTAGORE, UJJAL KUMAR  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 014455/0191  Assignor: MDIVERSITY INC.  Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
5715516	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING COLLECTOR ARRAYS	02/03/1998	<p>Reel/Frame: 007776/0361  Assignors: HOWARD, DAVID AMUNDSON; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW  Assignee: CELLULAR TELECOM, LTD</p> <p>Reel/Frame: 007876/0715  Assignors: HOWARD, DAVID AMUNDSON; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW  Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED</p>

			<p>Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p>
5805576	METHOD AND APPARATUS FOR TDMA WIRELESS COMMUNICATION EMPLOYING COLLECTOR ARRAYS FOR RANGE EXTENSION	09/08/1998	<p>Reel/Frame: 008185/0435 Assignors: WORLEY, WILLIAM SPENCER, III; HOWARD, DAVID AMUNDSON; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p>

			<p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6112058	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING CONFIDENCE METRIC PROCESSING FOR BANDWIDTH REDUCTION	08/29/2000	<p>Reel/Frame: 008797/0824  Assignors: WALTERS, ANDREW JOHN; WALLERIUS, JOHN WALKER; VASTANO, JOHN ANDREW; UYEHARA, LANCE KAZUMI  Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC.</p>

			<p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.  310 W. HAMILTON AVE,</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6131034	METHOD AND APPARATUS FOR COLLECTOR ARRAYS IN WIRELESS COMMUNICATIONS SYSTEMS	10/10/2000	<p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009554/0514  Assignors: MCLAUGHLIN, MICHAEL DAVID; RAACK, KEVIN DEAN; WALLERIUS, JOHN WALKER; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW; HOWARD, DAVID AMUNDSON  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p>

			<p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6137784	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING CONTROL FOR CONFIDENCE METRIC BANDWIDTH REDUCTION	10/24/2000	<p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009222/0842 Assignors: WALLERIUS, JOHN WALKER; WALTERS, ANDREW JOHN; VASTANO, JOHN ANDREW Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p>

			<p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6192038	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING AGGREGATION FOR DIGITAL SIGNALS	02/20/2001	<p>Reel/Frame: 008645/0043 Assignors: WALLERIUS, JOHN WALKER; WALTERS, ANDREW JOHN; VASTANO, JOHN ANDREW Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677</p>

		<p>Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6212387	METHOD AND APPARATUS FOR COLLECTOR ARRAYS OF DIRECTIONAL ANTENNAS CO-LOCATED WITH ZONE MANAGERS IN WIRELESS COMMUNICATIONS SYSTEMS	<p>04/03/2001</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009554/0094 Assignors: MCLAUGHLIN, MICHAEL DAVID; RAACK, KEVIN DEAN; WALLERIUS, JOHN WALKER; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW; HOWARD, DAVID AMUNDSON Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)</p>

			<p>Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.  150 CHARCOT AVE.  SAN JOSE, CALIFORNIA 95131</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6349094	METHOD AND APPARATUS FOR WIRELESS COMMUNICATIONS EMPLOYING CONTROL FOR BROADCAST TRANSMISSION	02/19/2002	<p>Reel/Frame: 011889/0840  Assignor: SC-WIRELESS INC.  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 011889/0835  Assignors: VASTANO, JOHN ANDREW; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR  Assignee: SC-WIRELESS INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK</p>



			<p>SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6041232	AGGREGATION OF SHAPED DIRECTIONAL RECEIVING ANTENNA ARRAY FOR IMPROVED LOCATION INFORMATION	03/21/2000	<p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009504/0853 Assignor: JENNINGS, EARLE WILLIS, III Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009514/0853 Assignor: JENNINGS, III, EARLE WILLIS Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 014455/0191 Assignor: M DIVERSITY INC. Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC.</p>

			<p>Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6108385	METHOD AND APPARATUS FOR REDUCING INTERMODULATION DISTORTION IN DIGITAL WIDEBAND TRANSMISSION SYSTEMS	08/22/2000	<p>Reel/Frame: 008155/0379 Assignor: WORLEY, WILLIAM SPENCER III Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			<p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6173191	IMPROVED LOCALIZATION OF SHAPED DIRECTIONAL TRANSMITTING AND TRASMITTING/RECEIVING ANTENNA ARRAY	01/09/2001	<p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009504/0816 Assignor: JENNINGS, EARLE WILLIS III Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.  Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC
--	--	--	--

### Applications

Application Number	Title	Filing Date	Recordation Information
09/836752	FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS	04/17/2001	Reel/Frame: 011701/0944 DOCUMENT FOR DETAILS): Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; UYEHARA, LANCE KAZUMI Assignee: M DIVERSITY INC.  Reel/Frame: 011976/0136 Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; UYEHARA, LANCE KAZUMI Assignee: M DIVERSITY INC.  Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.  Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.  Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC
09/879,603	FAST MACRODIVERSITY SWITCHING WITH TIME MANAGEMENT IN WIRELESS NETWORKS	06/12/2001	Reel/Frame: 011900/0351 Assignors: CHILLARIGA, GOPAL; DHARIA, BHUPAL KANAIYALAL; KOEPF, GERHARD ALBERT;

			<p>UYEHARA, LANCE KAZUMI Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
11/507789	Dynamic channel allocation in multiple-access communication systems	08/21/2006	<p>Reel/Frame: 018222/0672 Assignors: CHILLARGIA, GOPAL; KAUSHAL, ROHIT; DHARIA, BHUPAL; GHOSHTAGORE, UJJAL; UYEHARA, LANCE; KOEPF, GERHARD; RAACK, KEVIN Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 018222/0364 Assignor: MDIVERSITY INC. Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 018211/0410 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES INC.</p> <p>Reel/Frame: 018222/0226 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS LLC</p> <p>Reel/Frame: 018422/0764 Assignors: WARNER, ROBERT WINTERS, JACK Assignee: EIGENT TECHNOLOGIES LLC</p>
09/750592	System for fast macrodiversity switching in mobile wireless networks	12/28/2000	<p>Reel/Frame: 011703/0273 Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; GHOSHTAGORE, UJJAL KUMAR; KAUSHAL, ROHIT; KOEPF, ALBERT GERHARD; UYEHARA, LANCE</p>

		<p>KAZUMI Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
--	--	--